BISS Biodiversity Information Science and Standards

Biodiversity Information Science and Standards 3: e37344
doi: 10.3897/biss.3.37344

OPEN ACCESS

Conference Abstract

The Earth Biogenome Project

Jonathan Coddington[‡], Harris A Lewin[§], Gene E Robinson[|], W. John Kress[‡]

‡ Smithsonian Institution, Washington, United States of America
§ University of California at Davis, Davis, CA, United States of America
| Carl R. Woese Institute for Genomic Biology, University of Illinois, Champaign, IL, United States of America

Corresponding author: Jonathan Coddington (coddington@si.edu)

Received: 14 Jun 2019 | Published: 26 Jun 2019

Citation: Coddington J, Lewin H, Robinson G, Kress W (2019) The Earth Biogenome Project. Biodiversity Information Science and Standards 3: e37344. https://doi.org/10.3897/biss.3.37344

Abstract

The Earth BioGenome Project (EBP) is a recently proposed international collaborative research initiative that aims to sequence the genomes of all ~1.5 million known eukaryotic species on Earth in 10 years. The project has been called “biology’s moonshot” because of its potential to transform our understanding of life on Earth, to provide new tools for the conservation, preservation and regeneration of biodiversity, and to drive innovations in agriculture, medicine and the delivery of ecosystem services. The presentation will highlight the many scientific opportunities and technical challenges foreseen for the EBP and the importance of global collaboration for success of the project.

Keywords

genomics, DNA, genomes, Eukaryota, life

Presenting author

Jonathan A. Coddington

This is an open access article distributed under the terms of the CC0 Public Domain Dedication.

Presented at

Biodiversity_Next 2019